


**INFORMATION  
DISCLOSURE  
STATEMENT**

Atty. Docket No.: 275.00080101	Serial No.: 10/718,359
Applicant(s): Ganapathy et al.	Confirmation No.: 3660
Application Filing Date: November 20, 2003	Group: 1642-1646
Information Disclosure Statement mailed:	March 10, 2004

**U.S. PATENT DOCUMENTS**

Examiner Initial	Copies Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MDP		4,736,866	04/12/88	Leder et al.			
↑		4,873,191	10/10/89	Wagner et al.			
		5,175,383	12/29/92	Leder et al.			
		5,175,384	12/29/92	Krimpenfort et al.			
		5,221,778	06/22/93	Bryne et al.			
		5,223,409	06/29/93	Ladner et al.			
		5,288,846	02/22/94	Quertermous et al.			
		5,298,422	03/29/94	Schwartz et al.			
		5,347,075	09/13/94	Sorge			
		5,387,742	02/07/95	Cordell			
		5,464,764	11/07/95	Capecchi et al.			
↓		5,487,992	01/30/96	Capecchi et al.			
MDP		5,614,396	03/25/97	Bradley et al.			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Copies Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
MDP	X	WO 90/02809	03/22/90	PCT				
↑	X	WO 91/17271	11/14/91	PCT				
	X	WO 92/01047	01/23/92	PCT				
	X	WO 92/09690	06/11/92	PCT				
	X	WO 92/20791	11/26/92	PCT				
↓	X	WO 92/15679	09/17/92	PCT				
MDP	X	WO 92/18619	10/29/92	PCT				

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<i>Myp</i>	X	WO 93/01288	01/21/93	PCT				
<i>↑</i>	X	WO 91/00906	01/24/91	PCT				
<i>↓</i>	X	WO 91/10741	07/25/91	PCT				
<i>Myp</i>	X	WO 92/03918	03/19/92	PCT				

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copies Enclosed	Document Description
<i>Myp</i>	X	Ashrafi et al., "Genome-wide RNAi analysis of <i>Caenorhabditis elegans</i> fat regulatory genes," <i>Nature</i> , 16 January 2003;421:268-272.
<i>↑</i>	X	Atmaca et al., "Weight Gain and Serum Leptin Levels in Patients on Lithium Treatment," <i>Neuropsychobiology</i> , 2002;46:67-69.
	X	Ausubel et al., eds., <i>Current Protocols in Molecular Biology</i> , Vols 1-4, John Wiley & Sons, Inc., New York, NY, 1994; title page, publisher's page and table of contents only (16 pages).
	X	Bai, L. & Pajor, A. M., "Expression cloning of NaDC-2, an intestinal Na(+) - or Li(+) -dependent dicarboxylate transporter," <i>Am. J. Physiol</i> , 1997; 273(2), G267-G274.
	X	Baptista et al., "Lithium and Body Weight Gain," <i>Pharmacopsychiatry</i> , 1995;28:35-44.
	X	Barbas III et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>PNAS</i> , September 1991;88:7978-7982.
	X	Bass et al., "A systematic mutational analysis of hormone-binding determinants in the human growth hormone receptor," <i>Proc Natl Acad Sci USA</i> , May 1991;88: 4498-4502.
<i>↓</i>	X	Blakely et al., "Vaccinia-T7 RNA Polymerase Expression System: Evaluation for the Expression Cloning of Plasma Membrane Transporters," <i>Annal Biochem.</i> , 1991;194:302-308.
<i>Myp</i>	X	Bode et al., "Molecular and functional analysis of glutamine uptake in human hepatoma and liver-derived cells," <i>Am J. Physiol</i> , 3 July 2002;283: G1062-1073.

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Mpp	X	Bond et al., "The effect of lithium salts on the urinary excretion of $\alpha$ -oxoglutarate in man," <i>Br J Pharmacol.</i> , 1972;46:116-123.
↑	X	Bruggeman et al., "Human antibody production in transgenic mice: expression from 100kb of the human IgH locus," <i>Eur J Immunol.</i> , 1991;21:1323-1326.
	X	Chalfie et al., "Green Fluorescent Protein as a Marker for Gene Expression," <i>Science</i> , 11 February 1994;263:802-805.
	X	Chancy et al., "Expression and Differential Polarization of the Reduced-folate Transporter-1 and the Folate Receptor $\alpha$ in Mammalian Retinal Pigment Epithelium," <i>J Biol Chem</i> , 7 July 2000;275(27): 20676-20684.
	X	Chen et al., "Characterization of a Rat $\text{Na}^+$ -Dicarboxylate Cotransporter," <i>J Biol Chem</i> , 14 August 1998;273(33): 20972-20981.
	X	Chen et al., "Molecular and functional analysis of SDCT2, a novel rat sodium-dependent dicarboxylate transporter," <i>J Clin Invest</i> , April 1999;103(8): 1159-1168.
	X	Chen and Silverstone, "Lithium and Weight Gain," <i>Int Clin Psychopharmacol.</i> , 1990;5:217-225.
	X	Cheng et al., "RNA interference and human disease," <i>Mol Genet Metab</i> , 2003; 80:121-28.
	X	Cheng et al., "Relationship between the inhibition constant ( $K_i$ ) and the concentration of inhibitor which causes 50 percent inhibition ( $I_{50}$ ) of an enzymatic reaction," <i>Biochem. Pharmacol.</i> , 1973;22:3099-3108.
	X	Chothia et al., "Canonical Structures for the Hypervariable Regions of Immunoglobulins," <i>J Mol. Biol.</i> , 1987; 196: 901-917.
	X	Clackson et al., "Making antibody fragments using phage display libraries," <i>Nature</i> , 15 August 1991;352:624-628
↓	X	Coxhead et al., "Carbamazepine versus lithium in the prophylaxis of bipolar affective disorder," <i>Acta Psychiatr Scand</i> , 1992;85:114-118.
Mpp	X	Cunningham and Wells, "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis," <i>Science</i> , 2 June 1989;244:1081-1085.
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↑	X	Fagiolini et al., "Prevalence of Obesity and Weight Change During Treatment in Patients with Bipolar I Disorder," <i>J Clin Psychiatry</i> , June 2002;63(6):528-533.
	X	Fei et al., "Structural and Functional Characteristics of Two Sodium-coupled Dicarboxylate Transporters (ceNaDC1 and ceNaDC2) from <i>Caenorhabditis elegans</i> and Their Relevance to Life Span," <i>J Biol Chem</i> , 21 February 2003;278(8): 6136-6144.
	X	Fei et al., "The Amino Acid Transport System y <sup>+</sup> L Induced in <i>Xenopus laevis</i> Oocytes by Human Choriocarcinoma Cell (JAR) mRNA is Functionally Related to the Heavy Chain of the 4F2 Cell Surface Antigen," <i>Biochemistry</i> , 1995;34:8744-8751.
	X	Fei et al., "Two oligopeptide transporters from <i>Caenorhabditis elegans</i> : molecular cloning and functional expression," <i>Biochem J</i> , 1998;332:565-572.
	X	Fei et al., "A Novel H <sup>+</sup> -coupled Oligopeptide Transporter (OPT3) from <i>Caenorhabditis elegans</i> with a Predominant Function as a H <sup>+</sup> Channel and an Exclusive Expression in Neurons," <i>J Biol Chem</i> , 31 March 2000;275(13): 9563-9571.
	X	Fei et al., "Expression cloning of a mammalian proton-coupled oligopeptide transporter," <i>Nature</i> , 7 April 1994;368:563-566.
	X	Fei et al., "Preferential recognition of zwitterionic dipeptides as transportable substrates by the high-affinity peptide transporter PEPT2," <i>Biochim Biophys Acta</i> , 1999;1418: 344-351.
	X	Fire et al., "Potent and specific genetic interference by double-stranded RNA in <i>Caenorhabditis elegans</i> ," <i>Nature</i> , 19 February 1998;391:806-811.
↓	X	Friedmann, "Progress Toward Human Gene Therapy," <i>Science</i> , 16 June 1989;244: 1275-1281.
MJP	X	Fuchs et al., "Targeting Recombinant Antibodies to the Surface of <i>Escherichia Coli</i> : Fusion to a Peptidoglycan Associated Lipoprotein," <i>Bio/Technology</i> , December 1991;9:1370-1372.

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<i>MJP</i>	X	Garrad et al., "F <sub>AB</sub> Assembly and Enrichment in a Monovalent Phage Display System," <i>Bio/Technology</i> , December 1991;9: 1373-1377.
	X	Genbank Accession Number BI490092: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BI490092, GenBank gi: 15329320, dbEST Id: 9319728, "RNA source anonymous pool of 6 male brains, age range 23-27; 1 male lung, age 27; and 1 male testis, age 69," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=15329320>; 3 pgs.
	X	Genbank Accession Number BG616615: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BG616615, GenBank gi: 13667986, dbEST Id: 8338710, "5' and 3' adaptors were used in cloning...," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=13667986>; 2 pgs.
	X	Genbank Accession Number BI490615: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BI490615, GenBank gi: 15329843, dbEST Id: 9320251, "RNA source anonymous pool of 6 male brains, age range 23-27; 1 male lung, age 27; and 1 male testis, age 69," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=15329843>; 3 pgs.
<i>Wol</i>	X	Genbank Accession Number R01302: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. R01302, GenBank gi: 751038, dbEST Id: 171457, "1 <sup>st</sup> Strand cDNA was primed with a PAC I- oligo(dT) primer...," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=751038>; 3 pgs.

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Myp	X	Genbank Accession Number AY151833: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AY151833, Accession No. AY151833, "Homo sapiens Na+-coupled citrate transporter protein (NaCT) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=27651990>; 3 pgs.
	X	Genbank Accession Number AF522186: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF522186, Accession No. AF522186, "Rattus norvegicus sodium-coupled citrate transporter mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=24210856>; 3 pgs.
	X	Genbank Accession Number NM_079426: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus NM_079426, Accession No. NM_079426, "Drosophila melanogaster I'm not dead yet CG3979-PA (Indy) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=24666460>; 5 pgs.
Myp	X	Genbank Accession Number AE003519: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AE003519, Accession Nos. AE003519, AE002602, AE014296, "Drosophila melanogaster chromosome 3L, section 66 and 83 of the complete sequence," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=23093161>; 137 pgs.

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MDP	X	Genbank Accession Number U26209: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus HSU26209, Accession No. U26209, "Human renal sodium/dicarboxylate cotransporter (NADC1) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1098556; 3 pgs.
↑	X	Genbank Accession Number AF260824: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF260824, Accession No. AF260824, "Homo sapiens renal sodium/sulfate cotransporter mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=12620131>; 3 pgs.
↓	X	Genbank Accession Number AF169301: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF169301, Accession No. AF169301, "Homo sapiens Na <sup>+</sup> /sulfate cotransporter SUT-1 (SUT-1) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=6224690>; 3 pgs.
MDP	X	GenBank Accession No. AF509505: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF509505, Accession No. AF509505, "Drosophila melanogaster INDY transporter protein (Indy) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=27127245>; 3 pgs.

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WPP	X	GenBank Accession No. AF154121: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF154121, Accession No. AF154121, "Homo sapiens sodium-dependent high affinity dicarboxylate transporter (NADC3) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet: <URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=8132323>; 3 pgs.
↑	X	GenBank Accession No. BB261903 :National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BB261903, GenBank gi BB261903, dbEST Id: 9388115, [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=15410789>; 3 pgs.
↓	X	GenBank Accession No. BB393630: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BB393630, GenBank gi: 16409164, dbEST Id: 10005027, [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=16409164>; 3 pgs.
WPP	X	GenBank Accession No. BB641100: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BB641100, GenBank gi: 15401660, dbEST Id: 9379637, [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=15401660>; 3 pgs.
WPP	X	GenBank Accession No. Z14092: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus CER107, Accession No. Z14092, "Caenorhabditis elegans cosmid R107, complete sequence," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=6820>; 24 pgs.

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	X	Goding, J., "Monoclonal Antibodies: Principles and Practice," 3 <sup>rd</sup> Edition, Academic Press, 1996, title page, publisher's page and table of contents only.
	X	Gram et al., "In vitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library," PNAS, April 1992;89:3576-3580.
	X	Green et al., "Antigen-specific human monoclonal antibodies from mice engineered with human Ig heavy and light chain YACs," Nature Genet, May 1994;7(1): 13-21.
	X	Greenspan et al., "Nile Red: A Selective Fluorescent Stain for Intracellular Lipid Droplets," J Cell Biol, March 1985;100: 965-973.
	X	Griffiths et al., "Human anti-self antibodies with high specificity from phage display libraries," EMBO J, 1993;12(2):725-734.
↓	X	Harlow et al., <i>Antibodies: A Laboratory Manual</i> , Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY; title page, publisher's page, and table of contents, 9 pages (1988).
MDP	X	Hatanaka et al., "Primary Structure, functional characteristics and tissue expression pattern of human ATA2, a subtype of amino acid transport system," Biochim Biophys Acta, 2000;1467:1-6.

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↑	X	Hatanaka et al., "Na <sup>+</sup> - and Cl <sup>-</sup> coupled active transport of nitric oxide synthase in hibitors via amino acid transport system B <sup>0+</sup> ," <i>J Clin Invest</i> , April 2001;107(8): 1035-1043.
	X	Hawkins et al., "Selection of Phage Anitbodies by Binding Affinity Mimicking Affinity Maturation," <i>J Mol Biol</i> , 1992;226:889-896.
	X	Helfand & Rogina, "Regulation of Gene Expression During Aging," <i>Cell Differ</i> , 2000;29:67-80.
	X	Heninger and Mueller, "Carbohydrate Metabolism in Mania," <i>Arch Gen Psychiatry</i> , October 1970;23:310-318.
	X	Hodgkinson, "The Relation Between Citric Acid and Calcium Metabolism with Particular Reference to Primary Hyperparathyroidism and Idiopathic Hypercalciuria," <i>Clin Sci</i> , 1963;24:167-178.
	X	Hoogenboom et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," <i>Nuc Acid Res</i> , 1991;19(15):4133-4137.
	X	Huang et al., "Transport of N-Acetylaspartate by the Na <sup>+</sup> -Dependent High-Affinity Dicarboxylate Transporter NaDC3 and Its Relevance to the Expression of the Transporter in the Brain," <i>J Pharmacol Exp Ther</i> , 2000;295(1):392-403.
	X	Inoue et al., "Functional Identity of <i>Drosophila melanogaster</i> Indy as a cation-independent, electroneutral transporter for tricarboxylic acid-cycle intermediates," <i>Biochem J</i> , 2002;367:313-319.
↓	X	Inoue et al., "Structure, Function, and Expression Pattern of a Novel Sodium-coupled Citrate Transporter (NaCT) Cloned from Mammalian Brain," <i>J Bio Chem</i> , 18 October 2002;277(42): 39469-39476.
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	Information Disclosure Statement mailed: March 16, 2004	

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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 275.00080101	Serial No.: 10/718,359
	Applicant(s): Ganapathy et al.	Confirmation No.: 3660
	Application Filing Date: November 20, 2003	Group: 1642
	Information Disclosure Statement mailed:	March 10, 2004

Examiner Initial	Copies Enclosed	Document Description
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	Information Disclosure Statement mailed:	March 10, 2004

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	Information Disclosure Statement mailed:	March <u>10</u> , 2004

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	Application Filing Date: 11/20/03	Group: 1646
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**U.S. PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MYP		7118873 B2	10/10/06	Reenan et al.			
MOP		2003/0082647 A1	05/01/03	Reenan et al.			

**FOREIGN PATENT DOCUMENTS**

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							Yes	No
		NONE						

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

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EXAMINER	Date Considered
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<b>EXAMINER</b> <i>MICHAEL PAK</i>	<b>Date Considered</b> <i>2/28/07</i>
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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 275.0008 0101	Serial No.: 10/718,359
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